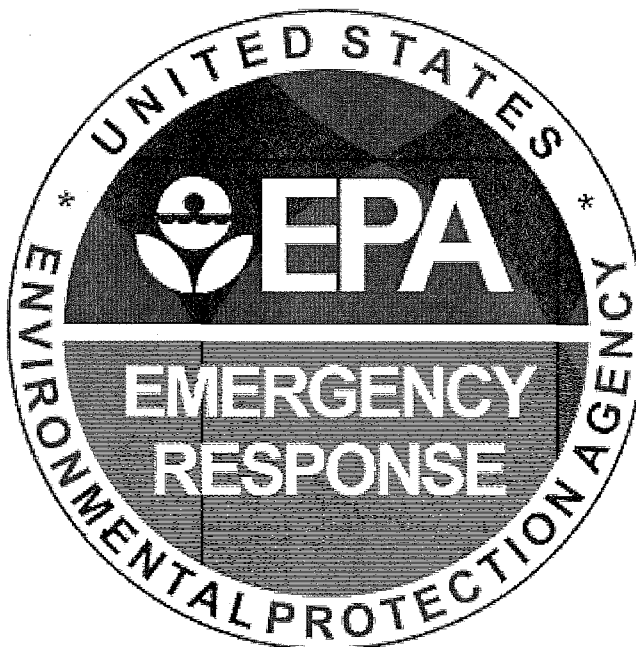




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U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Lake Calumet Smelter - Removal Polrep
Final Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region V

Subject: POLREP #8
Final Polrep
Lake Calumet Smelter
B5FM
Chicago, IL
Latitude: 41.6776690 Longitude: -87.6057530

To: Bradley Benning, ERB
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From: Bradley Benning, OSC
Date: 1/27/2014
Reporting Period: 12/10/2013 to 12/20/2013

1. Introduction

1.1 Background

Site Number:	B5FM	Contract Number:	EP-S5-08-04
D.O. Number:	054	Action Memo Date:	9/27/2013
Response Authority:	CERCLA	Response Type:	Time-Critical
Response Lead:	EPA	Incident Category:	Removal Action
NPL Status:	Non NPL	Operable Unit:	
Mobilization Date:	10/7/2013	Start Date:	10/7/2013
Demob Date:	12/20/2013	Completion Date:	12/20/2013
CERCLIS ID:	ILN000509228	RCRIS ID:	ILD980503213
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident

Time-Critical Removal Action

1.1.2 Site Description

The subject property is situated in an urban/industrial setting within the City of Chicago. Bordering the property north is 119th Street (unpaved and currently not in use as a street), beyond which is an open mowed grass field is part of the Sherwin-Williams Paint Co. property; on the east is bare, filled, open property that is a portion of another storage tank container company, beyond which is I-94; on the south is bare, filled, open property that is another portion of the storage tank container company; and to the west is S. Champlain Ave. (unpaved and currently not in use as a street), beyond which are railroad siding tracks and an unknown manufacturing company. Information obtained from the Cook County Assessor's Office indicates that the facility's former structure, driveway and parking area are a rectangular shaped property on approximately 5.7 acres of land. According to a 1936 – 1950 Sanborn Fire Insurance Map, the former facility consisted of a two story main building with two one story rooms attached to the south and a one level storage room attached to the west. What appears to be a separate, small smelting building containing a vat was located south and adjacent to the storage room. At some point between the late 1950's to the 1960's, Calumet Lead ceased doing business. Based on United States Geological Survey (USGS) aerial photographs from 1998 and 2002 and observations of IEPA personnel during the August 10, 2004 PCS Assessment, and the 2006 site reconnaissance portion of the PA, all that remains of the former structures is a portion of a smokestack. Other structures have been razed.

1.1.2.1 Location

The Calumet Lead site is an inactive, abandoned metal producing operation located at 11901 S. Champlain Ave, Chicago, Illinois, Township 37 North, Range 14 East, Section 22, Latitude 41.678, Longitude -87.606, in Hyde Park.

Township, Cook County . The Site was located at the southern end of the City of Chicago, approximately 3000 south of E. 115th Street. Interstate 94 is visible approximately 1500 feet east of the facility.

1.1.2.2 Description of Threat

Lead, arsenic, and cadmium were detected above Removal Management Levels (RMLs), and are identified as hazardous substances as defined by Section 101(14) of CERCLA. While the Site is fenced, gaps exist at multiple locations, allowing potential direct contact with the contaminated soils at the Site and tracking contamination exposing nearby human populations.

1.1.3 Preliminary Removal Assessment/Removal Site Inspection Results

Through field based soil and debris evaluation, with the IEPA's XRF unit, soil contamination was detected not only on the floor of the former building, but also detected at various locations away from the former structures, throughout the property (lead ranged between 7480 mg/kg – 768,000mg/kg, zinc 5110 mg/kg – 146,000 mg/kg, and arsenic limit of detection – 36,300 mg/kg. All locations analyzed contained one or more constituents, related to lead and arsenic smelting, with concentrations well above U.S. EPA RML's. No confirmatory soil samples were collected during August 10, 2004 site visit. However, to confirm these preliminary observations, soil samples were collected, as part of this April 2008 SI, throughout the property. Most were collected near those locations screened with the XRF during the August 10, 2004 site visit. Laboratory analytical results of the soil samples indicate numerous compounds and analytes significantly exceeding corresponding background levels and/or SCDM benchmarks throughout the property. Lead exceeds the site soil background levels in nineteen of the soil samples. Surface level total lead samples range from 521 mg/kg (background) to 54,000 mg/kg. Sediment samples for total lead along the north perimeter range from 469 mg/kg to 15,000 mg/kg. In addition, TCLP regulatory levels for lead were exceeded in all nine samples analyzed with the TCLP method. TCLP levels ranged from 11 mg/kg to 1700 mg/kg. Cadmium levels were exceeded in three samples ranging from 1.8 mg/kg to 7.3 mg/kg. The total approximate area of soil contamination is calculated to be 5.7 acres (248,292 square feet).

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

The overall goal of this removal action is to prevent direct contact and off-site migration of contaminated soils from the LCS Site. This goal will be accomplished by removing highly contaminated surface soils and backfilling with clean earthen materials to provide a protective cover to prevent direct contact and migration of residual contamination from the LCS Site.

2.1.2 Response Actions to Date

12/10/2013 - Continue work: Cover operations ongoing; delivery of gravel backfill for top layer; no exceedences on DataRams.

12/11/2013 - Continue work: delivery of backfill; continue covering over areas that are at final grade; no exceedences on DataRams.

12/12/2013 - Continue work: delivery of backfill; continue cover operations; no exceedences on DataRams.

12/13/2013 - Continue work: backfill delivery; continue cover operations; no exceedences on DataRams.

12/14/2013 - Continue work: continue backfill delivery; continue cover operations; no exceedences on DataRams.

12/16/2013 - Continue work: continue backfill delivery; continue cover operations; remove gravel layer from S access road at the request of property owner due to possible contamination; START contractor demobed.

12/17/2013 - Continue work: continue backfill delivery; continue cover operations; lay down new gravel on site road.

12/18/2013 - Continue work: continue backfill delivery; continue cover operations; site trailers demobed.

12/19/2013 - Continue work; finish cover operations; no new fencing was installed as the property is already i by adjacent property fences and the railroad right-of-way; sewer manholes onsite were marked with orange hi cones.

12/20/2013 - All remaining site personnel and equipment were demobed; access gates were locked.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

No PRPs were identified for this site, a Federal Warrant for Access was secured on September 12, 2013.

2.1.4 Progress Metrics

<i>Waste Stream</i>	<i>Medium</i>	<i>Quantity</i>	<i>Manifest #</i>	<i>Treatment</i>	<i>Disposal</i>
C&D Waste	solid	1,441 tons	NA		Advanced Disposal, IN
Treated non-haz soil	solid	2,202 tons	On file		Hoosier Landfill, IN
Tires	solid	30 tons	NA	recycled	Ozinga materials

R5 Priorities Summary

This is an Integrated River Assessment. The numbers should overlap.	Miles of river systems cleaned and/or restored	NA
	Cubic yards of contaminated sediments removed and/or capped	NA
	Gallons of oil/water recovered	NA
	Acres of soil/sediment cleaned up in floodplains and riverbanks	NA
Stand Alone Assessment	Acres Protected	5.7
	Number of contaminated residential yards cleaned up	0
	Human Health Exposures Avoided	500
	Number of workers on site	0
Contaminant(s) of Concern		
Contaminant(s) of Concern	Lead, cadmium, arsenic	

2.2 Planning Section

2.2.1 Anticipated Activities

Complete final cost accounting activities.

2.2.1.1 Planned Response Activities

No additional response activities are planned for this Site.

2.2.1.2 Next Steps

Assist with with any future reuse of the property, work with ORC to place a Deed Restriction on the property to future excavation on the Site, notify Federal Judge that the Access Warrant can be terminated.

2.2.2 Issues

Upon completion of the removal action a Deed Restriction will likely be place on the property as contaminant is present and limit future use of the property. Adjacent property owner is investigating the possibility of purchasing the property to allow storage expansion for their current tenant.

2.3 Logistics Section

Managed by the ERRS FCA

2.4 Finance Section

2.4.1 Narrative

Managed by ERRS FCA/RM and OSC.

12/10.2013 - Task Order Mod. for \$300,000.00 increase to \$1.5 million.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	\$1,500,000.00	\$1,232,477.42	\$267,522.58	17.83%
TAT/START	\$32,000.00	\$30,000.00	\$2,000.00	6.25%
Intramural Costs				
Total Site Costs	\$1,532,000.00	\$1,262,477.42	\$269,522.58	17.59%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Certain financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

2.5.1 Safety Officer

Federal OSC

2.5.2 Liaison Officer

Not required

2.5.3 Information Officer

Janet Pope/USEPA is the CIC for this site. CIC developed a fact sheet for the site.

3. Participating Entities

3.1 Unified Command

USEPA Fund Lead

3.2 Cooperating Agencies

City of Chicago
Illinois EPA

4. Personnel On Site

EPA - 1
START - 1
ERRS - 8

5. Definition of Terms

RML - Removal Management Level
ERRS - Emergency Removal and Response Services
START - Superfund Technical Assessment and Response Team
XRF - X-Ray Fluorescence
ATSDR - Agency for Toxic Substances and Disease Registry
PPM - Parts per million
LCS - Lake Calumet Smelter
OSC - On-scene Coordinator
EPA - Environmental Protection Agency
CO - Contract Officer
PR - Procurement Request

6. Additional sources of information

6.1 Internet location of additional information/

Website: www.epaosc.org/lakecalumetsmelter

6.2 Reporting Schedule

No additional Polreps are anticipated.

7. Situational Reference Materials

Repository for documents will be established at a nearby facility.
Visit website: www.epaosc.org/lakecalumetsmelter